



FireRay 2000 TROUBLE SHOOTING TIPS

1. Verify dip switch positions located in the center of the controller : (Numbered Top to Bottom)
 - 1 (Alarm) Alarm Latching/Non Latching - Default - Switch is **UP** – Non Latching Mode
 - 2 (COMP) Drift Compensation - Default - Switch is **UP** – Drift Compensation ON
 - 3 (25%) 25% Obscuration – Default - Switch is **UP** – Not Selected
 - 4 (35%) 35% Obscuration – Default - Switch is **Down (Hooked)** – Selected
 5. (50%) 50% Obscuration – Default - Switch is **UP** – Not Selected
2. Slide the Test Switch (Test/Rest) on the upper right hand corner of the controller to the **Left Side – On/Test**.
3. (*Important*) Verify the Low/High Gain Pot on the upper center of the Controller is at the 12:00 position.
4. Receiver needs to be less than 330 ft. in cable length from the controller.
5. Verify you have 12/24 VDC (System Power) at Transmitter and Controller.
6. Verify that you have a line of site between the Transmitter and Receiver with at least 19” – 24” clearance along the beams path and are mounted 19” – 24” below the ceiling.
7. Connect VOM meter to “Test +/-” terminal’s in Controller. Align using the *Transmitter* for the highest voltage possible (4.0 – 7.0 VDC). 2.6 VDC indicates unit working but the receiver is not getting any signal. Voltage above 4.8 VDC indicates the IR transmitter is putting out too much signal and will saturate the receiver, causing false alarms. After aligning for highest gain possible you will need to turn down the IR transmitter by adjusting pot on the back of the transmitter clockwise. This is a Non-Linear Adjustment so use a meter to ensure 4.8 VDC setting. The potentiometer is labeled for Max - Min. Default value is **Max Power - 330ft.**)
8. Adjust the Low/High Signal Pot (usually the High LED is on) on the upper center of the Controller until both LED’s stay off. Should be around the 11:00 position.
9. Move the test switch to the “Reset (Run)” position (Moved to the right).
10. **WAIT AT LEAST 60 Seconds** after turning the Test Switch from “ON/Test” to “OFF/Run” for control unit to reset, store settings and to allow the AGC circuit to set up before you begin your testing.
11. Place the Obscuration Filter (provided) over Receiver to test for Alarm. The system should go into Alarm in about 10 seconds. (Red LED on Control Box Front Cover.)
12. Block the path of the Transmitter to verify the beam goes into Trouble/Fault. The Yellow LED on the right side of the controller PC board should be illuminated after about 10 seconds and then resets when the blockage is cleared.
13. Do not place addressable monitor module inside of Control Box. This will interfere with the operation of the Beam Detector.

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